

RECEIVED
CENTRAL FAX CENTER
FEB 12 2009

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) An apparatus for default encryption of audio/video content for distribution, comprising:

a conditional access encryption system that uses encryption code words as encryption keys;

a conditional access management system that communicates with and manages the conditional access encryption system, wherein the conditional access management system provides the encryption keys to the conditional access encryption system and periodically changes the encryption keys; and

a memory storing default encryption information for use by the conditional access encryption system to encrypt certain audio/video content upon a communication failure between the conditional access encryption system and the conditional access management system in which said communication failure results in an inability for the conditional access management system to provide the encryption keys to the conditional access encryption system which would otherwise result in the audio/video content being distributed unencrypted. the default encryption key being distinct from keys supplied by and periodically changed by the conditional access management system ~~the termination of current encryption activity.~~

2. (Original) The apparatus of claim 1, wherein the default encryption information comprises default encryption keys.

3. (Original) The apparatus of claim 2, wherein the default encryption keys are unique for each of a plurality of channels.

4. (Original) The apparatus of claim 1, further comprising a control computer that initializes the configuration memory with the default encryption information.

5. (Original) The apparatus of claim 1, wherein the configuration memory comprises a non-

Application No.: 10/795,929

volatile memory.

6. (Previously Presented) The apparatus of claim 1, wherein the content is encrypted with the default encryption information if a communication failure occurs between the conditional access management system and the conditional access encryption system.

7. (Previously Presented) The apparatus of claim 1, wherein the content is encrypted with the default encryption information if communication cannot be established between the conditional access management system and the conditional access encryption system.

8. (Original) The apparatus according to claim 1, wherein the conditional access system provides selective encryption of the content.

9. (Currently Amended) An apparatus for default encryption of audio/video content, comprising:
a conditional access system;

means for encrypting content in the conditional access system that uses encryption code words as encryption keys;

means for managing the conditional access system, wherein the means for managing provides the encryption keys to the means for encrypting and periodically changes the encryption keys;

means for communicating between the managing means and the encrypting means;

means for storing default encryption information for the conditional access system for use by the conditional access system to encrypt certain audio/video content upon a communication failure between the conditional access system and the managing means in which said communication failure results in an inability for the managing means to provide the means for encryption keys to the means for encrypting which would otherwise result in the audio/video content being distributed unencrypted, the default encryption key being distinct from keys supplied by and periodically changed by the means for managing ~~the termination of current encryption activity;~~ and

Application No.: 10/795,929

means for configuring the storing means with the default encryption information.

10. (Original) The apparatus of claim 9, wherein the default encryption information comprises default encryption keys.

11. (Original) The apparatus of claim 10, wherein the default encryption keys are unique for each of a plurality of channels.

12. (Original) The apparatus of claim 9, wherein the storing means comprises a non-volatile memory.

13. (Previously Presented) The apparatus of claim 9, wherein the content is encrypted with the default encryption information if a communication failure occurs between the management means and the encrypting means.

14. (Previously Presented) The apparatus of claim 9, wherein the content is encrypted with the default encryption information if communication cannot be established between the management means and the encrypting means.

15. (Original) The apparatus according to claim 9, wherein the conditional access system provides selective encryption of the content.

16. (Currently Amended) A method of default encryption of audio/video content for distribution, comprising:

initializing a default configuration memory with default encryption;

communicating with a conditional access management system to retrieve active encryption information for a conditional access system;

the default encryption being distinct from active encryption information supplied by the conditional access management system

Application No.: 10/795,929

encrypting content for distribution with the active encryption information;

distributing the content encrypted with active encryption information;

if a communication failure occurs between the conditional access management system and the conditional access system in which said communication failure results in an inability for the conditional access management system to provide updated active encryption information to support the encrypting which would otherwise result in the audio/video content being distributed unencrypted ~~the termination of current encryption activity~~;

reading the default encryption information from the default configuration memory;

encrypting the audio/video content with the default encryption information; and

distributing the audio/video content encrypted with the default encryption information.

17. (Previously Presented) The method of claim 16, further comprising:

if communication is restored between the conditional access management system and the conditional access system:

communicating with the conditional access management system to retrieve active encryption information for the conditional access system;

encrypting the audio/video content for distribution with the active encryption information; and

distributing the audio/video content encrypted with active encryption information.

18. (Original) The method of claim 16, wherein the default encryption information comprises default encryption keys.

19. (Original) The method of claim 18, wherein the default encryption keys are unique for each of a plurality of channels.

20. (Original) The method of claim 16, wherein the default configuration memory comprises a

Application No.: 10/795,929

non-volatile memory.

21. (Original) The method of claim 16, wherein the encryption comprises selective encryption.

22. (Original) A computer readable medium storing instructions which, when executed on a programmed processor, carry out the process according to claim 16.

23. (Currently Amended) A method of default encryption of audio/video content for distribution, comprising:

initializing a default configuration memory with default encryption information;

attempting to communicate with a conditional access management system to retrieve active encryption information for a conditional access system;

if communication cannot be established between the conditional access management system and the conditional access system such that said not establishing communication results in an inability for the conditional access management system to provide the active encryption information to the conditional access encryption system which would otherwise result in the audio/video content being distributed unencrypted ~~the termination of current encryption activity~~;

reading the default encryption information from the default configuration memory, the default encryption information being distinct active encryption information supplied by the conditional access management system;

encrypting the audio/video content with the default encryption information; and

distributing the audio/video content encrypted with the default encryption information.

24. (Previously Presented) The method of claim 23, further comprising:

if communication is achieved between the conditional access management system and the conditional access system:

receiving active encryption information for the audio/video content for distribution in the conditional access system;

Application No.: 10/795,929

encrypting the content with the active encryption information; and
distributing the content encrypted with active encryption information.

25. (Original) The method of claim 23, wherein the default encryption information comprises default encryption keys.

26. (Original) The method of claim 25, wherein the default encryption keys are unique for each of a plurality of channels.

27. (Original) The method of claim 23, wherein the default configuration memory comprises a non-volatile memory.

28. (Original) A computer readable medium storing instructions which, when executed on a programmed processor, carry out the process according to claim 23.

29. (Currently Amended) A method of default encryption of audio/video content for distribution, comprising:

initializing a default configuration memory with default encryption information;
communicating with a conditional access management system to retrieve active encryption information for the content for distribution in a conditional access system;

encrypting the audio/video content with the active encryption information;
distributing the audio/video content encrypted with active encryption information;
signaling all set-top boxes within the conditional access system instructing them to use the active encryption information;

if a communication failure occurs between the conditional access management system and the conditional access system in which said communication failure results in an inability for the conditional access management system to provide the active encryption information to the conditional access encryption system which would otherwise result in the audio/video content being distributed unencrypted ~~the termination of current encryption activity~~;

Application No.: 10/795,929

reading the default encryption information from the default configuration memory, the default encryption information being distinct from active encryption information supplied by the conditional access management system;

encrypting the audio/video content with the default encryption information;

signaling all set-top boxes within the conditional access system instructing them to use the default encryption information; and

distributing the audio/video content encrypted with the default encryption information.

30. (Previously Presented) The method of claim 29, further comprising:

if communication is restored between the conditional access management system and the conditional access system:

receiving active encryption information for the audio/video content for distribution in the conditional access system;

encrypting the audio/video content with the active encryption information;

signaling all set-top boxes within the conditional access system instructing them to use the active encryption information; and

distributing the audio/video content encrypted with active encryption information.

31. (Original) The method of claim 29, wherein the default encryption information comprises default encryption keys.

32. (Original) The method of claim 31, wherein the default encryption keys are unique for each of a plurality of channels.

33. (Original) The method of claim 29, wherein the default configuration memory comprises a non-volatile memory.

34. (Original) A computer readable medium storing instructions which, when executed on a

Application No.: 10/795,929

programmed processor, carry out the process according to claim 29.

35. (Currently Amended) A method of default encryption of audio/video content for distribution, comprising:

- initializing a default configuration memory with default encryption information;

- attempting to communicate with a conditional access management system to retrieve active encryption information for the content for distribution in a conditional access system;

- if communication cannot be established between the conditional access management system and the conditional access system such that said not establishing communication results in an inability for the conditional access management system to provide the active encryption information to the conditional access encryption system which would otherwise result in the audio/video content being distributed unencrypted ~~the termination of current encryption activity~~;

- reading the default encryption information from the default configuration memory, the default encryption information being distinct active encryption information supplied by the conditional access management system;

- encrypting the audio/video content with the default encryption information;

- signaling all set-top boxes within the conditional access system instructing them to use the default encryption information; and

- distributing the audio/video content encrypted with the default encryption information.

36. (Previously Presented) The method of claim 35, further comprising:

- if communication is achieved between the conditional access management system and the conditional access system:

- receiving active encryption information for the audio/video content for distribution in the conditional access system;

- encrypting the audio/video content with the active encryption information;

- signaling all set-top boxes within the conditional access system instructing them to use the active encryption information; and

Application No.: 10/795,929

distributing the audio/video content encrypted with active encryption information.

37. (Original) The method of claim 35, wherein the default encryption information comprises default encryption keys.

38. (Original) The method of claim 37, wherein the default encryption keys are unique for each of a plurality of channels.

39. (Original) The method of claim 35, wherein the default configuration memory comprises a non-volatile memory.

40. (Original) A computer readable medium storing instructions which, when executed on a programmed processor, carry out the process according to claim 35.

41. (Currently Amended) An apparatus for default decryption of audio/video content, comprising:

- a receiver conditional access system that provides decryption functions;

- an even decryption engine;

- an odd decryption engine;

- a memory storing odd and even ~~alternate~~ decryption keys for use by the odd and even decryption engines;

- said memory also storing a default decryption key for use to decrypt the audio/video content when the conditional access system receives signaling instructing it to use the default decryption key instead of the odd and even ~~alternate~~ decryption keys; and

- wherein, such signaling instruction is received when a communication failure at an audio/video content provider would otherwise permit content to be provided without benefit of encryption for decryption using the odd and even ~~alternate~~ decryption keys by the odd and even decryption engines.

Application No.: 10/795,929

-10-

42. (Original) The apparatus of claim 41, wherein the default decryption information comprises default decryption keys.

43. (Original) The apparatus of claim 42, wherein the default decryption keys are unique for each of a plurality of channels.

44. (Previously Presented) The apparatus of claim 41, wherein, when signaled to initialize the default decryption key, the conditional access system initializes the memory with default encryption information received with the signaling.

45. (Previously Presented) The apparatus of claim 41, wherein the memory comprises a non-volatile memory.

46. (Previously Presented) The apparatus of claim 41, wherein the content is decrypted with the default decryption key upon reception of signaling instructing the conditional access system to use the default decryption key.

47. (Currently Amended) An apparatus for default decryption of audio/video content, comprising:

- means for receiving audio/video content in a conditional access system that provides decryption functions;

- an even decryption engine;

- an odd decryption engine;

- a memory storing alternate decryption code words serving as decryption keys keys for use by the odd and even decryption engines;

- means for receiving signaling in the conditional access system;

- means for storing default decryption information for audio/video content received in the conditional access system for use to decrypt the audio/video content when the conditional access system receives signaling instructing it to use the default decryption information instead of the

Application No.: 10/795,929

~~odd and even alternate~~ decryption keys, wherein such signaling instruction is received when a communication failure at an audio/video content provider would otherwise permit content to be provided without benefit of encryption for decryption using the odd or even decryption keys; and means for configuring the storing means with the default decryption information.

48. (Original) The apparatus of claim 47, wherein the default decryption information comprises default decryption keys.

49. (Original) The apparatus of claim 48, wherein the default decryption keys are unique for each of a plurality of channels.

50. (Original) The apparatus of claim 47, wherein the storing means comprises a non-volatile memory.

51. (Previously Presented) The apparatus of claim 47, wherein the audio/video content is decrypted with the default decryption information upon reception of signaling instructing the conditional access system to use the default decryption information.

52. (Currently Amended) A method of default decryption of audio/video content, comprising:

receiving audio/video content in a conditional access system that provides decryption functions, said audio/video content normally being decrypted using an even decryption engine and an odd decryption engine operating by use of ~~odd and even alternate~~ decryption keys;

receiving signaling instructing storage of default decryption information for audio/video content in a conditional access system;

receiving default decryption information for use to decrypt the audio/video content when the conditional access system receives signaling instructing it to use the default decryption information;

initializing a default configuration memory with the default decryption information;

receiving active decryption information with audio/video content in the conditional

Application No.: 10/795,929

-12-

access system;

decrypting selected channels with the odd and even decryption engines using the odd and even ~~alternate~~ decryption keys;

if signaling reception instructs use of the default decryption information for the conditional access system:

reading the default decryption information for the audio/video content from the default configuration memory; and

decrypting audio/video content with the default decryption information; and

wherein, such signaling reception instructs use of the default decryption information when a communication failure at an audio/video content provider would otherwise permit content to be provided without benefit of encryption for decryption using the odd and even ~~alternate~~ decryption keys by the odd and even decryption engines.

53. (Previously Presented) The method of claim 52, further comprising:

if signaling reception instructs use of active decryption information:

receiving active decryption information with the audio/video content in the conditional access system;

decrypting audio/video content with the active decryption information.

54. (Original) The method of claim 52, wherein the default decryption information comprises default decryption keys.

55. (Original) The method of claim 54, wherein the default decryption keys are unique for each of a plurality of channels.

56. (Original) The method of claim 52, wherein the default configuration memory comprises a non-volatile memory.

57. (Original) A computer readable medium storing instructions which, when executed on a

Application No.: 10/795,929

programmed processor, carry out the process according to claim 52.

Application No.: 10/795,929

-14-